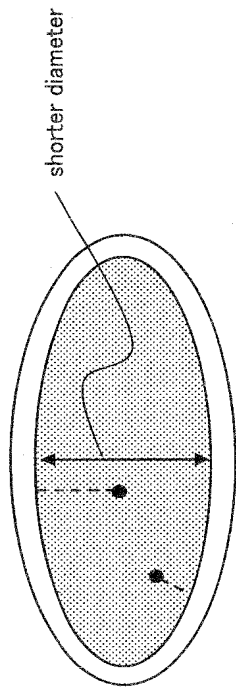
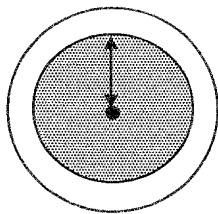


Figure A



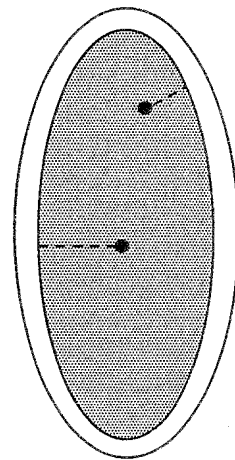
Indicates cell aggregates in the hollow portion

Indicates an arbitrary point of an aggregate
dotted line If a shorter diameter is less than $150\ \mu\text{m}$,
the length of the dotted line (the distance
between the aggregate to the inner wall)
should be less than $75\ \mu\text{m}$.



In the conventional hollow fiber, if the radius
is smaller than $75\ \mu\text{m}$, various problems
occur due to the narrow hollow portion.
problems in manufacture, an airlock during
the filling of cells and the limit
of the cell volume to be filled, etc

Figure B



Indicates cell aggregates in the hollow portion

Indicates an arbitrary point of an aggregate
dotted line If a shorter diameter is less than $150\ \mu\text{m}$, the length of the dotted line
(the distance between the aggregate to the inner wall) should be less than $75\ \mu\text{m}$.

